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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,185	09/10/2003	Woodrow Norvel Anderson	2356/SPRI.105487	7488
32423 7590 11/28/2007 SPRINT COMMUNICATIONS COMPANY L.P. 6391 SPRINT PARKWAY			EXAMINER	
			FOUD, HICHAM B	
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			11/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)				
Office Action Summary	10/659,185	ANDERSON, WOODROW NORVEL				
omee Adden Cammary	Examiner	Art Unit				
	Hicham B. Foud	2619				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with th	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS cause the application to become ABAND	TION. be timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 Se	eptember 2007.					
,						
3) Since this application is in condition for allowar						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11	I, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1,2,4-10,12-17 and 19-21</u> is/are pend	ing in the application.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1, 2, 4-10, 12-17 and 19-21</u> is/are rej	ected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	г.	*				
10)☐ The drawing(s) filed on is/are: a)☐ acce						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct		•				
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Of	TICE ACTION OF TORM PTO-152.				
Priority under 35 U.S.C. § 119		•				
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).				
1. Certified copies of the priority documents						
2. Certified copies of the priority documents						
3. Copies of the certified copies of the prior		eived in this National Stage				
application from the International Bureau		and the same of th				
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Sumi	mary (PTO-413)				
2) Dotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/M	ail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) ☐ Notice of Inform 6) ☐ Other:	mal Patent Application				
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DETAILED ACTION

Response to Amendment

- 1. The amendment filed on 09-11-2007 has been entered and considered.
 - Claims 1, 2, 4-10, 12-17 and 19-21 are pending in this application.
 - Claims 3, 11 and 18 have been canceled.
 - Claims 1, 2, 4-10, 12-17 and 19-21 remain rejected as discussed below.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4-10, 12-17 and 19-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Linzy (US 6,718,384).

For claim 1, Linzy discloses a method for identifying network elements and related information, comprising: providing a plurality of discovery plans, each having computer- useable device-specific instructions receivable by a network-element-discovery component, such that the computer-usable device-specific instructions are followed in order to perform discovery on at least one network element and specify queries to issue to the at least one network element (see column 5 lines 2- and lines 12-17; provisioning engine querying the network elements by using TL1, SNMP and/or other appropriate protocol), information to extract from results of the queries, and how to

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create and populate discovered objects with the results (see column 5 lines 28-30; provisioning engine determines whether the network element uses SNMP or TL1 by determining if it receives a proper response to those queries), wherein discovery includes extracting information from the at least one network element based on the computer-usable device-specific instructions (see column 5 lines 30-35; provisioning engine obtains the information of the network element); selecting a discovery plan from the plurality to interface with the at least one network element (see column 5 lines 28-30; provisioning engine determines whether the network element uses SNMP or TL1); and using the selected discovery plan to extract descriptive data from the at least one network element (see column 5 lines 30-35; provisioning engine obtains the information of the network element using Telnet).

For Claim 2, Linzy discloses the method, wherein the network-element-discovery component includes a generic network-element interface (GeNEI) (see Figure 5; element 45 "Provisioning engine").

For Claim 4, Linzy discloses the method, wherein selecting a discovery plan comprises: querying the at least one network element (see column 5 lines 2- and lines 12-17; provisioning engine querying the network elements); and receiving from the at least one network element information sufficient to determine from the plurality of discovery plans the selected discovery plan that will enable the GeNEI to interrogate the at least one network element (see column 5 lines 28-30; provisioning engine determines whether the network element uses SNMP or TL1 by determining if it receives a proper response to those queries).

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For Claim 5, Linzy discloses the method, wherein the at least one network element descriptive data includes data related to the physical characteristics of the at least one network element (see column 4 lines 64-67; provisioning engine gets descriptive data to validate configuration information, card configuration....).

For Claim 6, Linzy discloses the method, wherein data related to the physical characteristics of the network element includes information related to one or more of: network cards, terminals, common controls, shelves, communications cards, circuits, ports, connections, virtual tributaries, shelves, communications capabilities, bandwidth characteristics, and identifying information (see column 4 lines 64-67; provisioning engine gets descriptive data to validate configuration information, card configuration....).

Claims 7, 8 and 20 are rejected for the same reason as claim 1.

For claim 9, Linzy discloses a generic resolver for determining a communications protocol to be used to communicate with the at least one network element, whereby an applicable protocol-specific, device-agnostic interface can be selected to interrogate the at least one network element (see column 5 lines 12-16; Provisioning engine that may use TL1 messages, SNMP messages and/or any other appropriate protocol to query the network element and see column 5 lines 29-31; Provisioning engine determines the appropriate protocol by receiving a proper response to those types of queries).

For claim 10, Linzy discloses a system wherein each of the one or more networkelement-discovery components is a protocol-specific, device-agnostic interface that uses one of the plurality of discovery plans to perform discovery functions on a communications network (see column 5 lines 12-16; Provisioning engine that may use TL1 messages, SNMP messages and/or any other appropriate protocol to query the network element and see column 5 lines 29-31; Provisioning engine determines the appropriate protocol by receiving a proper response to those types of queries).

For claim 12, Linzy discloses a system wherein information to be extracted from the one or more network elements includes identifying indicia and technical-specification data, where technical-specification data includes one or more of software versions, network addresses, identifiers, a listing of installed components, a listing of the location of installed components, a listing of the availability of services provisioned (see column 4 lines 64-67; provisioning engine gets descriptive data to validate configuration information, card configuration....).

For claim 13, Linzy discloses one or more computer-readable media having computer-useable instructions embodied thereon for performing a method of gathering and storing information about devices on a communications network, the method comprising: identifying a protocol-specific interface module to communicate with a network device (see column 5 lines 12-16; Provisioning engine that may use TL1 messages, SNMP messages and/or any other appropriate protocol to query the network element); establishing a logical connection with the network device (see column 5 lines 29-31; Provisioning engine determines the appropriate protocol by receiving a proper response to those types of queries; inherently, it establishes a logical connection through the query); determining from the device a configuration file for interrogating the device, the configuration file having computer-useable

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device-specific instructions such that the computer-usable device-specific

instructions are followed in order to perform discovery on the device and specify queries to issue to the device (see column 5 lines 2- and lines 12-17; provisioning engine querying the network elements by using TL1, SNMP and/or other appropriate protocol), information to extract from results of the queries, and how to create and populate discovered objects with the results (see column 5 lines 28-30; provisioning engine determines whether the network element uses SNMP or TL1 by determining if it receives a proper response to those queries), wherein discovery includes extracting information from the device based on the computer-useable device-specific instructions (see column 5 lines 30-35; provisioning engine obtains the information of the network element based on the protocol determined before); and interrogating the device to receive device-attribute data related to the device, whereby the device-attribute data can be stored (see column 5 lines 31-32; Provisioning engine may obtain the information in all of the registers in the network element using Telnet and see Figure 5 element 44 "memory" for storage).

For claim 14, Linzy discloses a media, wherein determining a protocol-specific interface module to communicate with a network device includes at least one of the following methods: issuing a command to the network device and receiving back an indication of a protocol to be used; issuing a command to the network device and receiving back a response in the protocol to be used; and successively issuing a plurality of commands in various protocols until a response is received from the network device indicating which of the plurality of protocols should be used (see

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column 5 lines 33-35; Provisioning engine may issue a set register all command to reflect the registers and then query the registers and see column 35-37; By knowing which protocol the network uses and which register is reporting, the type of information may be determined).

For claim 15, Linzy discloses a media wherein various protocols include a communications protocol for which a protocol-specific interface can be implemented (see column 5 lines 12-16; Provisioning engine that may use TL1 messages, SNMP messages and/or any other appropriate protocol to query the network element and see column 5 lines 29-31; Provisioning engine determines the appropriate protocol by receiving a proper response to those types of queries).

For claim 16, Linzy discloses a media, wherein a communications protocol for which a protocol-specific interface can be implemented include one or more selections from the following: SNMP, TL1, Telnet, a proprietary command-line-interface, SSH, CORBA, and Q3 (see column 5 lines 12-16; Provisioning engine that may use TL1 messages, SNMP messages and/or any other appropriate protocol to query the network element and see column 5 lines 29-31; Provisioning engine determines the appropriate protocol by receiving a proper response to those types of queries).

For claim 17, Linzy discloses a media, wherein determining a configuration file includes: receiving identifying indicia from the device; and identifying a configuration file consistent with the identifying indicia (see column 5 lines 29-31; Provisioning

engine determines the appropriate protocol by receiving a proper response to those types of queries).

For claim 19, Linzy discloses a media, wherein using the configuration file to interrogate the device-attribute data includes information related to one or more of: network cards, terminals, common controls, communications cards circuits, ports, connections, virtual tributaries, shelves, communications capabilities, bandwidth characteristics, and identifying information (see column 4 lines 65-67; the card configurations, the connection configurations).

For claim 21, Linzy discloses a method of identifying capabilities of a network, comprising: providing a set of discovery plans, each having computer-useable device-specific instructions such that the computer-usable device-specific instructions are followed in order to perform discovery on at least one network element and specify queries to issue to the at least one network element (see column 5 lines 2- and lines 12-17; provisioning engine querying the network elements by using TL1, SNMP and/or other appropriate protocol), information to extract from results of the queries, and how to create and populate discovered objects with the results (see column 5 lines 28-30; provisioning engine determines whether the network element uses SNMP or TL1 by determining if it receives a proper response to those queries), wherein discovery includes extracting information from the at least one network element based on the computer-useable device-specific instructions (see column 5 lines 30-35; provisioning engine obtains the information of the network element based on the protocol determined before);

identifying an appropriate network-element-interface to use for performing discovery on the at least one network device (see column 5 lines 12-16; Provisioning engine that may use TL1 messages, SNMP messages and/or any other appropriate protocol to query the network element); identifying an appropriate discovery plan for the identified network-element-interface to use for performing discovery on the at least one network device (see column 5 lines 29-31; Provisioning engine determines the appropriate protocol by receiving a proper response to those types of queries); retrieving data related to the at least one network device and automatically populating a database with the retrieved data (see column 5 lines 31-32; Provisioning engine may obtain the information in all of the registers in the network element using Telnet and see Figure 5 element 44 "memory" for storage).

Response to Arguments

- 3. Applicant's arguments with respect to claims 1, 2, 4-10, 12 and 20 have been considered but are most in view of the new ground(s) of rejection.
- 4. Applicant's arguments filed 09/11/07 with respect to claims 13 and 21 have been fully considered but they are not persuasive. In page 13 of Remarks, the applicant argues that Linzy fails to disclose a device-specific instructions. The examiner respectfully disagrees with the applicant since the protocols (such as TL1 and SNMP) that Linzy uses in his method to query the network elements to extract information from them, reads on the device-specific instructions since devices use different protocols. It is well known in the art that a protocol is a convention or standard that controls or enables the connection, communication, and data transfer between two computing

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endpoints. In its simplest form, a protocol can be defined as the rules governing the syntax, semantics, and synchronization of communication. Protocols may be implemented by hardware, software, or a combination of the two.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hicham B. Foud whose telephone number is 571-270-1463. The examiner can normally be reached on Monday - Thursday 10-3 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on 571-272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Hicham Foud 11/24/07

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